

<110> The Salk Institute For Biological Studies
NOEL, Joseph
VERDECIA, Mark

<130> SALK2410

<141> Filed Herewith

<160> 32

<170> PatentIn version 3.0

<210> 1

<211> 163

<212> PRT

<213> Homo sapiens

<220>

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<221>    PEPTIDE
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<222> (1) .. (163)

<223> Pin1

<400> 1

Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser
1 5 10 15

Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser
20 25 30

Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly
35 40 45

Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His
50 55 60

Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg
65 70 75 80

Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile
85 90 95

Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp
100 105 110

Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu Gly Ala Phe Ser Arg Gly
115 120 125

Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly
130 135 140

Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Ile Leu
145 150 155 160

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<210> 2
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> DOMAIN
<222> (1)..(38)
<223> Ww Domain of Pin1
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Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser
1 5 10 15

Gln Trp Glu Arg Pro Ser
35

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<210> 3
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<221> MOD_RES
<222> (2)..(2)
<223> PHOSPHORYLATION
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<222> (5)..(5)
<223> PHOSPHORYLATION
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Tyr Ser Pro Thr Ser Pro Ser
1 5

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<210> 4
<211> 9
<212> PRT
<213> ARTIFICIAL
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<220>
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<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa is any amino acid (Pro in Figure 4a & 4b)
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<400> 8

<210> 9

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MOD RES

$$\langle 222 \rangle \quad (4) \quad \overline{\cdot} \cdot (4)$$

<223> PHOSPHORYLATION

<400> 9

Leu Tyr Arg Ser Pro Ser
1 5

<210> 10

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MOD RES

$$\langle 222 \rangle \quad (4) \quad \overline{\cdot \cdot} \quad (4)$$

<223> PHOSPHORYLATION

<400> 10

Gly Ser Ser Ser Pro Val
1 5

<210> 11

<211> 6

<212> PRT

<213> Homo sapiens

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<221> MOD_RES

$$\langle 222 \rangle \quad (4) \cdot \cdot (4)$$

<223> PHOSPHORYLATION

<400> 11

Pro Pro Ala Thr Pro Pro
1 5

<210> 12

<211> 6

<212> PRT

<213> Homo sapiens

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 <222> (4)..(4)
 <223> PHOSPHORYLATION

<400> 12

Pro Pro Gly Ser Pro Pro
 1 5

<210> 13
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 <222> (4)..(4)
 <223> PHOSPHORYLATION

<400> 13

Ser Thr Ser Thr Pro Arg
 1 5

<210> 14
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<400> 14

Tyr Ser Pro Thr Ser Pro Ser
 1 5

<210> 15
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 <222> (2)..(2)
 <223> PHOSPHORYLATION

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Tyr Ser Pro Thr Ser Pro Ser
 1 5

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<223> PHOSPHORYLATION

<220>

<221> MOD RES

<222> (5) $\bar{5}$ (5)

<223> PHOSPHORYLATION

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Tyr Ser Pro Thr Ser Pro Ser
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<210> 18

<211> 34

<212> PRT

<213> ARTIFICIAL

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<223> PEPTIDE

<400> 18

Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly Arg
1 5 10 15

Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro
20 25 30

Ser Gly

<210> 19

<211> 34

<212> PRT

<213> ARTIFICIAL

 $\langle 220 \rangle$

<223> PEPTIDE

<400> 19

Gly Leu Pro Thr Pro Trp Thr Val Arg Tyr Ser Lys Ser Lys Lys Arg
1 5 10 15

Glu Gly

<220>
<223> PEPTIDE

<400> 20

Ser Tyr Tyr Leu Asn Met Tyr Thr Lys Glu Ser Gln Trp Asp Gln Pro
20 25 30

Thr Glu

<220>
<223> PEPTIDE

<400> 21

Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro
20 25 30

Ser Gly

<220>
<223> PEPTIDE

<400> 22

Pro Tyr Tyr Phe Asn Pro Ala Thr Arg Glu Ser Arg Trp Glu Pro Pro
20 25 30

<223> PEPTIDE

Glu Leu Pro Ser Gly Trp Glu Gln Arg Phe Thr Pro Glu Gly Arg Ala
1 5 10 15

Tyr Phe Val Asp His Asn Thr Arg Thr Thr Thr Trp Val Asp Pro Arg
20 25 30

<210> 27

<211> 33

<212> PRT

<213> ARTIFICIAL

<220>

<223> PEPTIDE

<400> 27

Pro Leu Pro Ser Gly Trp Glu Met Arg Leu Thr Asn Thr Ala Arg Val
1 5 10 15

Tyr Phe Val Asp His Asn Thr Lys Thr Thr Thr Trp Asp Asp Pro Arg
20 25 30

Leu

<210> 28

<211> 33

<212> PRT

<213> ARTIFICIAL

<220>

<223> PEPTIDE

<400> 28

Pro Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Val Leu Gly Arg Thr
1 5 10 15

Tyr Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro Ser
20 25 30

Pro

<210> 29

<211> 33

<212> PRT

<213> ARTIFICIAL

<220>

<223> PEPTIDE

Asp Leu Pro Ala Gly Trp Met Arg Val Gln Asp Thr Ser Gly Thr Tyr
1 5 10 15

